

Title (en)  
Method and apparatus employing audio and video data from an individual for authentication purposes

Title (de)  
Verfahren und Apparat mit Audio- und Videodaten eines Individuums zu Authentifizierungszwecken

Title (fr)  
Procédé et appareil utilisant des données audio et vidéo d'un homme à des fins d'authentification

Publication  
**EP 0779602 A3 19990512 (EN)**

Application  
**EP 96118549 A 19961119**

Priority  
US 57298295 A 19951215

Abstract (en)  
[origin: EP0779602A2] A method and apparatus is provided for determining the authenticity of an individual. In accordance with the method, audio and video data of the individual speaking at least one selected phrase is obtained. Identifying audio features and video features are then extracted from the audio data and the video data, respectively. A feature vector is formed which incorporates both the audio features and the video features. The feature vector is compared to a stored feature vector of a validated user speaking the same selected phrase. The individual is authenticated if the feature vector and the stored feature vector form a match within a prescribed threshold. <IMAGE>

IPC 1-7  
**G07C 9/00**; **G06K 9/46**

IPC 8 full level  
**G10L 15/10** (2006.01); **G06K 9/62** (2006.01); **G06K 9/68** (2006.01); **G06T 7/00** (2006.01); **G07C 9/00** (2006.01); **G10L 15/00** (2013.01); **G10L 15/24** (2013.01); **G10L 15/30** (2013.01); **G10L 17/00** (2013.01)

CPC (source: EP US)  
**G06F 18/256** (2023.01 - EP US); **G06V 10/811** (2022.01 - EP US); **G06V 40/70** (2022.01 - EP US); **G07C 9/37** (2020.01 - EP US)

Citation (search report)  
• [A] EP 0582989 A2 19940216 - IST TRENTINO DI CULTURA [IT]  
• [A] DE 4435272 A1 19950413 - RICOH KK [JP]  
• [X] CHIBELUSHI C C ET AL: "Voice and facial image integration for person recognition", MULTIMEDIA TECHNOLOGIES AND FUTURE APPLICATIONS. PROCEEDINGS OF THE IEEE INTERNATIONAL SYMPOSIUM, PROCEEDINGS OF INTERNATIONAL SYMPOSIUM ON MULTIMEDIA TECHNOLOGIES AND FUTURE APPLICATIONS, SOUTHAMPTON, UK, 21-23 APRIL 1993, ISBN 0-7273-1320-7, 1994, London, UK, Pentech Press, UK, pages 155 - 161, XP002096019  
• [A] TSUHAN CHEN ET AL: "LIP SYNCHRONIZATION USING SPEECH-ASSISTED VIDEO PROCESSING", IEEE SIGNAL PROCESSING LETTERS, vol. 2, no. 4, April 1995 (1995-04-01), pages 57 - 59, XP000501212

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DOCDB simple family (application)  
**EP 96118549 A 19961119**; CA 2188975 A 19961028; JP 33260996 A 19961213; US 57298295 A 19951215